

BOADS Training Seminar



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Senior Air Quality Analyst

STI

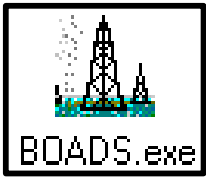
Sonoma Technology, Inc.

Petaluma, California

New Orleans, Louisiana

August 16, 1999

STI



Agenda

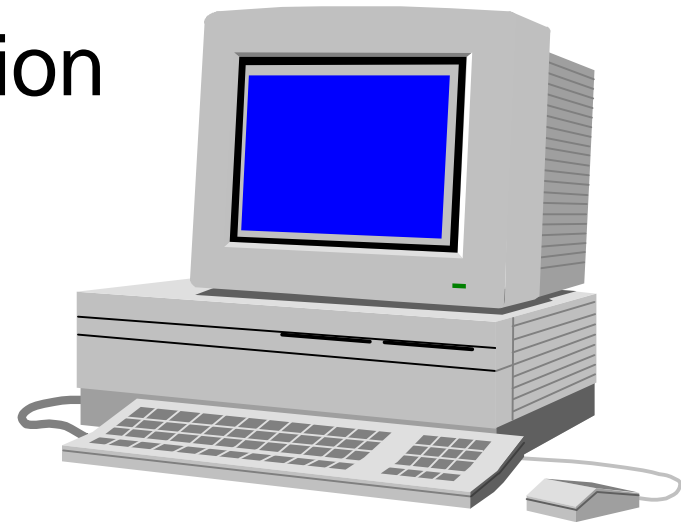


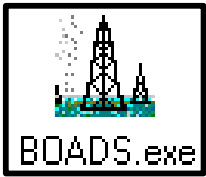
1. Introduction

- Information flow
- Operating paradigm - “look and feel”

2. Software Demonstration

- Software installation
- Initial startup



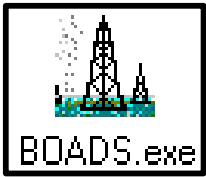


Agenda



Software Demonstration (continued)

- Create and edit data for the first month.
 - Begin a new survey.
 - Define OCS structures.
 - Add equipment to structures.
 - Run automated QC and validate results.
 - Copy data (structures and equipment).
 - Balance production/processing.
- Submit 1st survey data.
 - First, review the QC and validation results.
- Back up the main database.

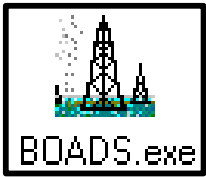


Agenda



Software Demonstration (continued)

- Prepare surveys for subsequent months
 - Copy the previous survey.
 - Add/remove structures or equipment.
 - Review parameters that vary monthly.
 - Balance production/processing.
 - Run automated QC and validate results.
 - Submit data once per month.



Agenda

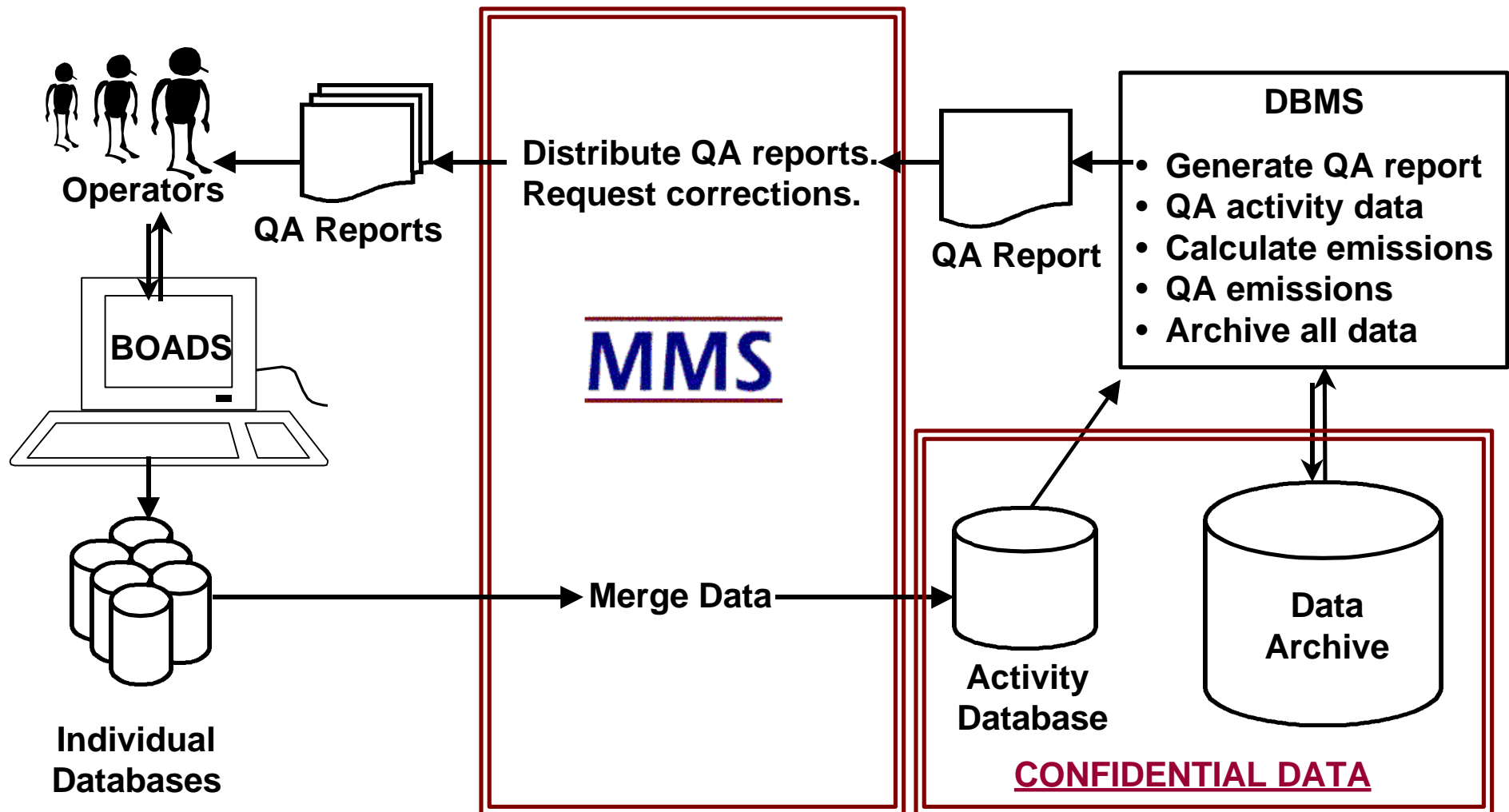


3. Technical support
4. About the full-scale trial run
5. Useful MS Access functions
 - Use MS Access 97 or above.
 - Design reports for internal use.
 - Link to and share a master BOADS database over a LAN.

--Break for lunch--

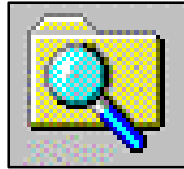
6. Hands-on with BOADS

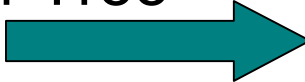
Information flow

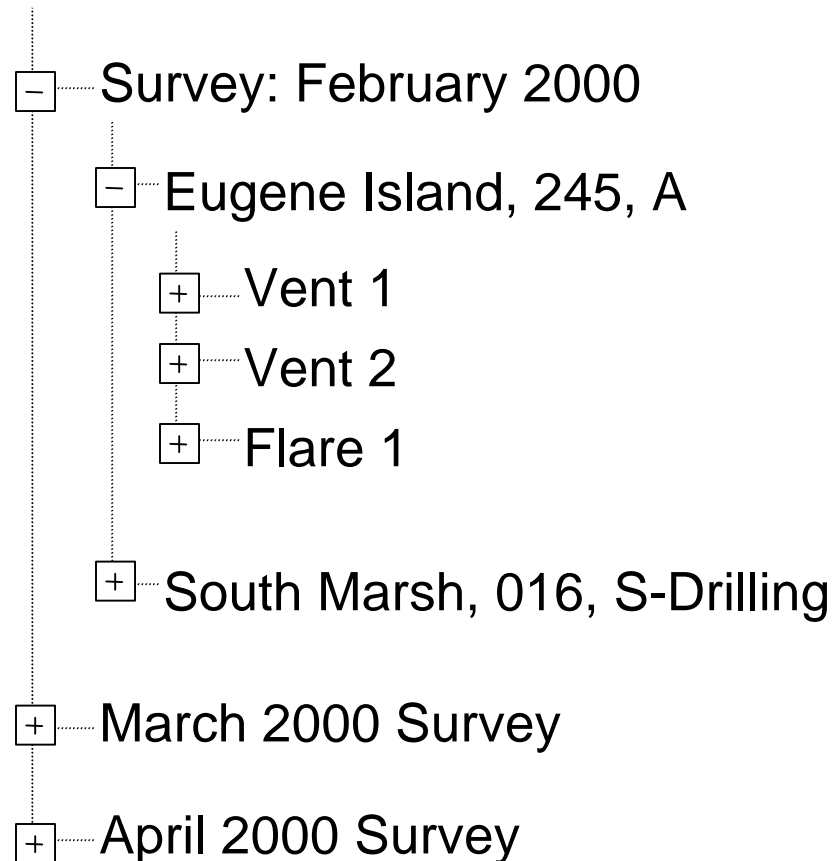


BOADS Operating Paradigm - “look and feel”

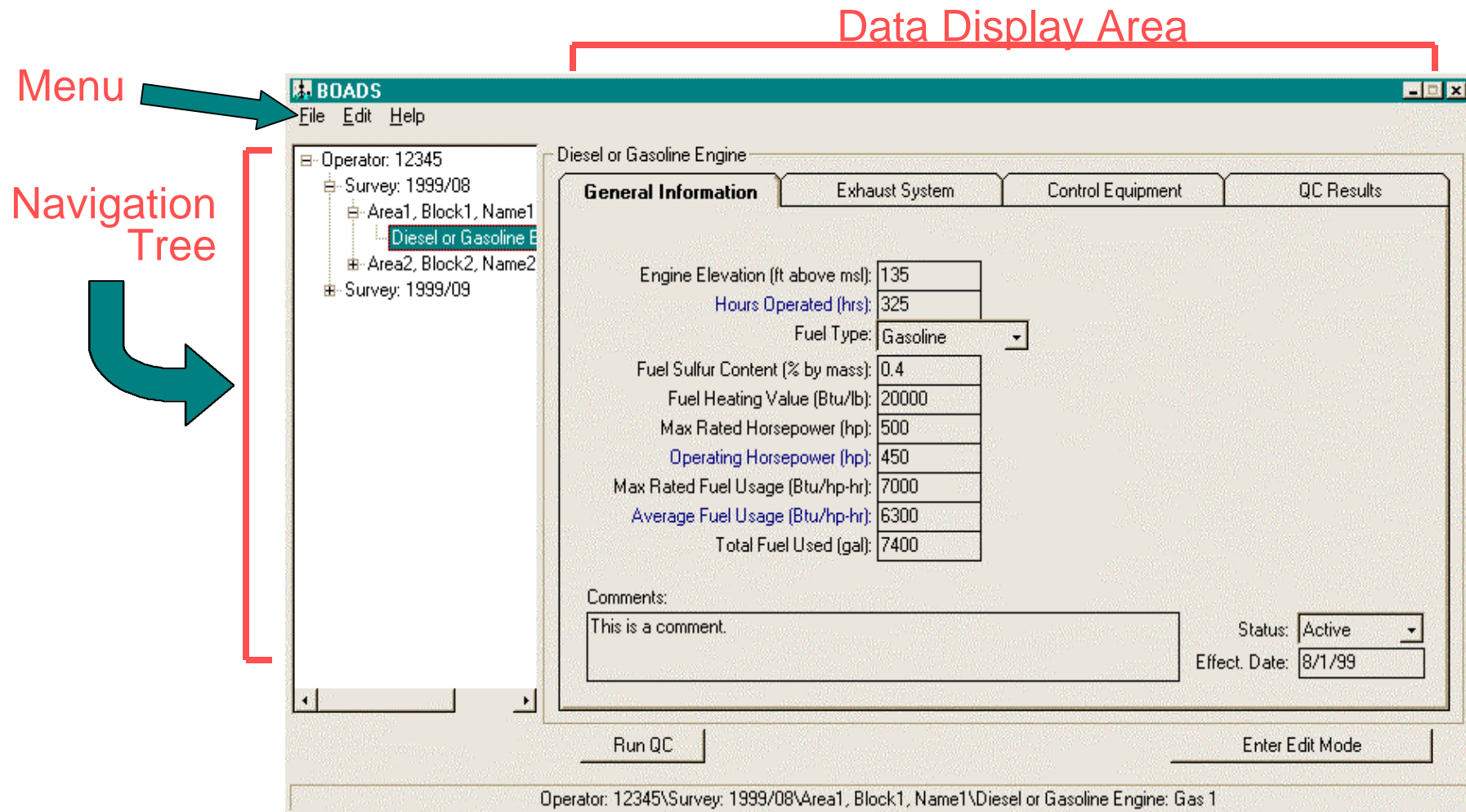
- Similar to Windows
File Manager



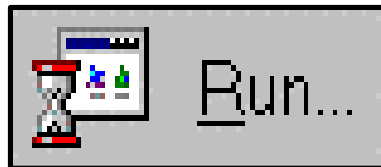
- File/Folder Tree
Structure 
- Select, Edit, New,
Copy, Paste, Delete



BOADS Operating Paradigm - “look and feel”

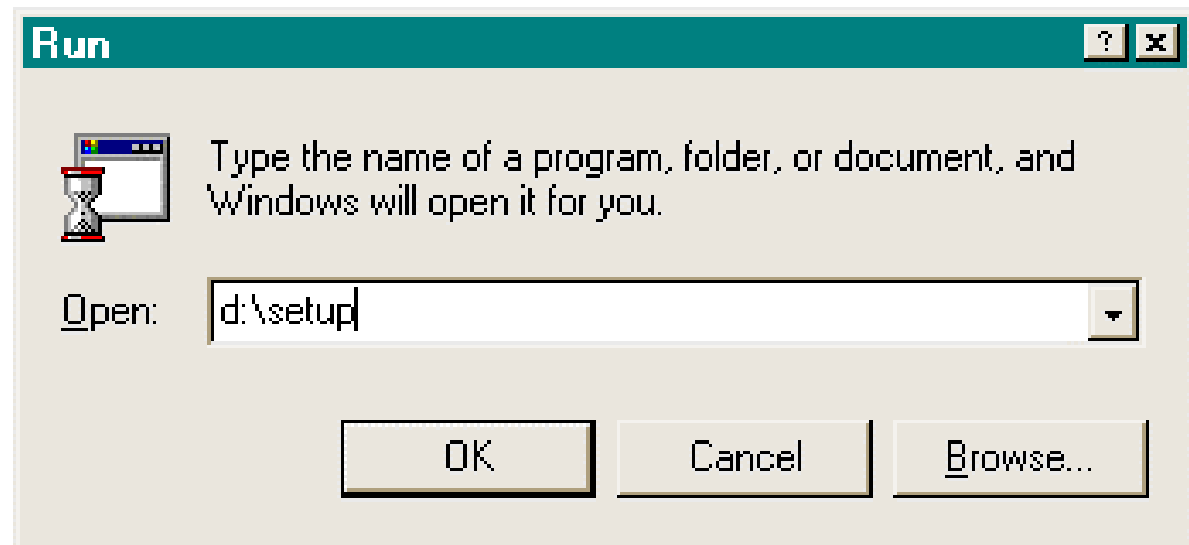


Installation



Minimum system requirements:

- 486 DX2
- Windows 95/NT
- 16 Mb RAM

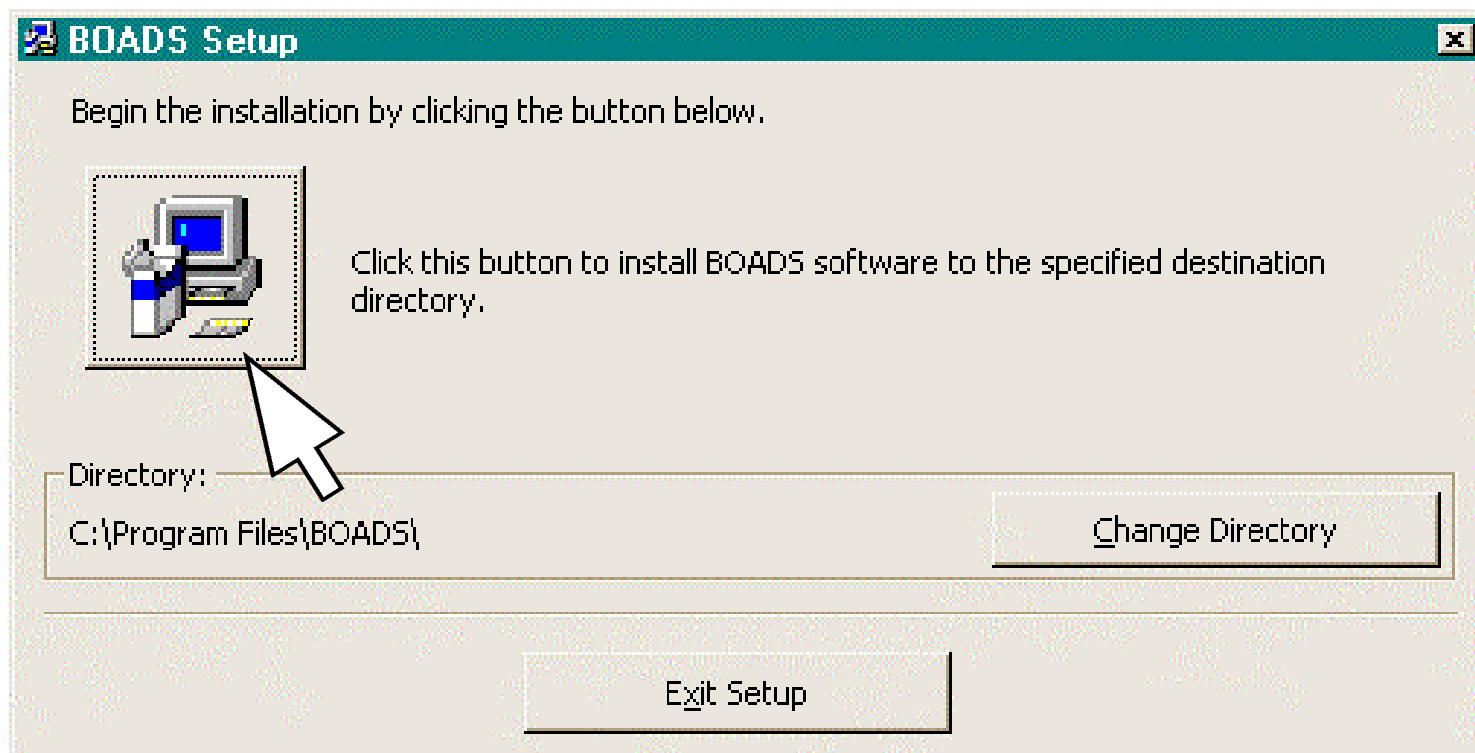


Type d:\setup (CD ROM) or type a:\setup (floppy) and click OK.

Installation

Simply follow the directions.

If system files are updated, you may be instructed to restart the computer and run the setup program again.



Initial Startup - 1st use

New User

Please enter your User Information

User ID*: 12345 (5 characters or less)

Contact Name*: John Doe

Phone*: (555) 555 - 5555 ext 555

Fax: (555) 555 - 5555

Email: jdoe@abc.com

Company Name*: ABC Corp

Address 1*: 123 Main Street

Address 2: Suite 100

City*: New Orleans

State*: Louisiana

Zip Code*: 55555

* = Required Information

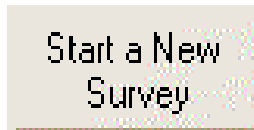
OK Cancel

- Provided by MMS
- Unique to the responding company

- The primary point of contact for MMS
- MMS may contact with questions about survey responses

Begin a new survey.

1a



1b



2

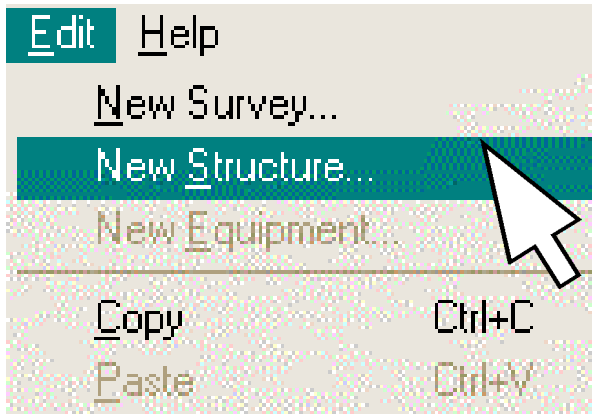
A dialog box titled "New Survey" with a teal header bar. It contains three input fields: "User ID:" with the value "12345", "Month (1 - 12):" with the value "8", and "Year (4 digits):" with the value "1999". At the bottom are "OK" and "Cancel" buttons.

Define a new structure.

1a

Add a New
Structure

1b



2

A screenshot of the 'New Structure' dialog box. The dialog has a title bar 'New Structure'. It contains several input fields: 'User ID' with value '12345', 'Survey Month/Year' with value '8/1999', 'MMS Complex ID (7 chars)' with value 'ABC-123', 'MMS Structure ID (2 chars)' with value 'M2', 'Area' with value 'Area1', 'Block' with value 'Block1', and 'Name' with value 'Name1'. At the bottom right are 'OK' and 'Cancel' buttons. A large black arrow points from the 'New Structure...' menu item to this dialog box.

Enter structure data.

1

Enter Edit Mode

2

MMS Struct. ID:	M2
MMS Cmplx. ID:	ABC-123
Area:	Area1
Block:	Block1
Structure Name:	Name1

Lease Number:	ABC-123
Longitude (dec. degrees):	-119.1234
Latitude (dec. degrees):	23.1234
Distance To Shore (mi):	45.5

<u>Structure Contact Info.</u>	
Name:	John Doe
Phone:	(555) 555 - 5555
Email:	jdoe@abc.com

Add New
Equipment

Location of Initial Crude Processing

Facility Type: This Structure

Area, Block, Structure Name:

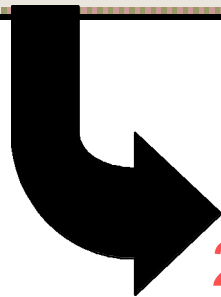
	<u>Production</u>	<u>Total Throughput</u>
Crude Oil (bbl):	10000	20000
Natural Gas (MMscf):	150	300
Nat'l Gas H2S Conc (ppmv):	.05	.04

	<u>Total Fuel Usage</u>
Natural Gas (Mscf):	1000
Gasoline (gal):	100
Diesel (gal):	10000

Run QC.

1

Run QC



2

Lease Number: ABC-123
Longitude (dec. degrees): -119.1234
Latitude (dec. degrees): 23.1234
Distance To Shore (mi): 45.5

Yellow indicates possible error.

3

General Information		QC Results	
QC Results			
Error Source	Error Description		
Longitude	Value not in expected range (-98 to -81)		

Validate error flags.

The image illustrates a four-step process for validating error flags in a software application.

Step 1: The main window displays a table under the "QC Results" tab. The table has three columns: "Error Source", "Error Description", and "Operator Comment". The "Error Source" column contains the text "Longitude", which is highlighted in blue. A mouse cursor is pointing at this text.

Error Source	Error Description	Operator Comment
Longitude	Value not in expected range (-98 to -81)	

Step 2: A callout box labeled "Edit QC Comment" is shown, with a large black arrow pointing from it to the "Edit QC Comments" dialog box.

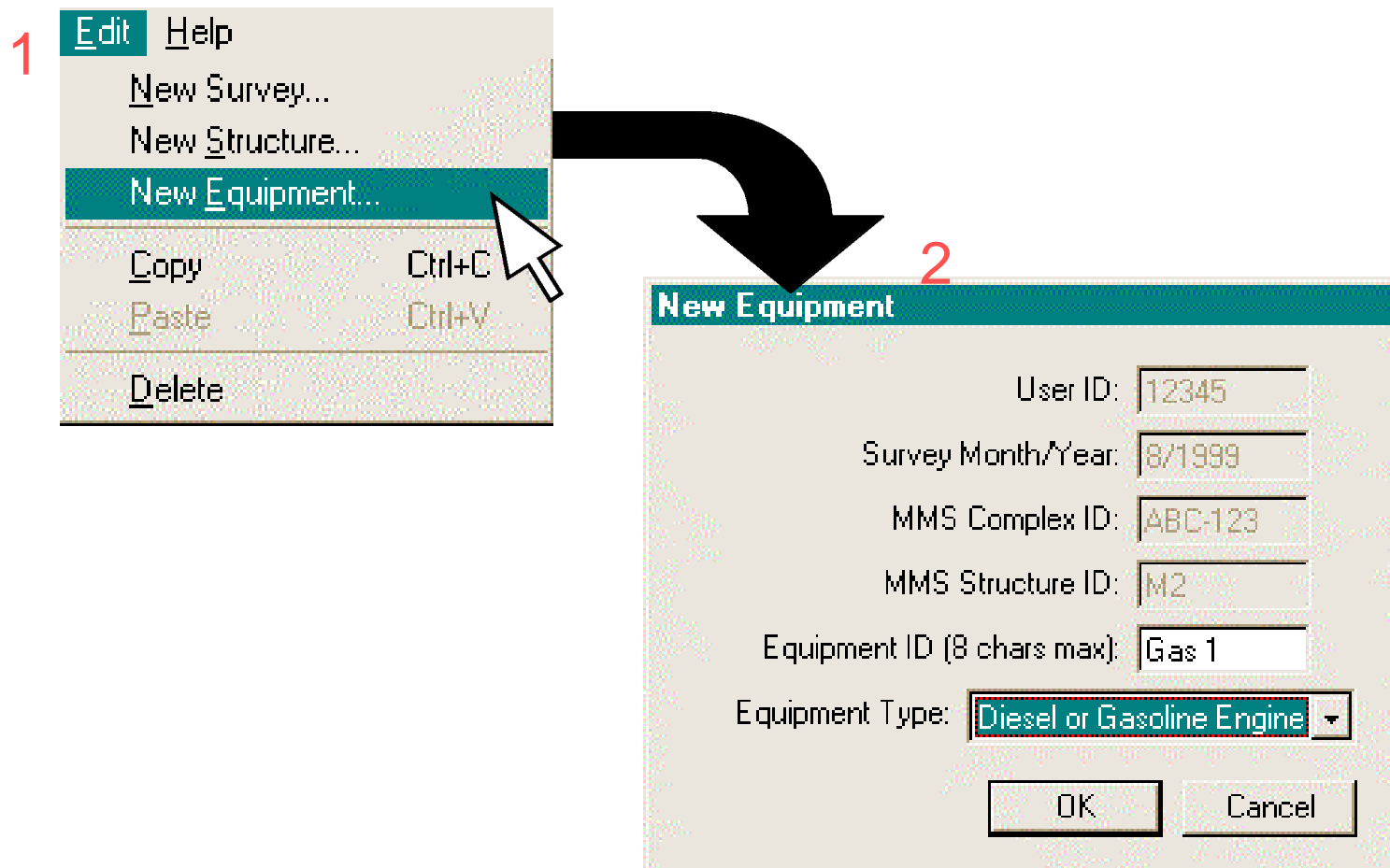
Step 3: The "Edit QC Comments" dialog box is open. It contains the following fields:

- Field Name: Longitude
- Error Description: Value not in expected range (-98 to -81)
- Comments: Longitude -119.1234 is in California.

At the bottom of the dialog box are "OK" and "Cancel" buttons.

Step 4: A button labeled "Save & Leave Edit Mode" is shown, which is the final step in the process.

Define new equipment.



Enter equipment data.

1

Enter Edit Mode

2

General Information		Exhaust System
Engine Elevation (ft above msl):	135	
Hours Operated (hrs):	325	
Fuel Type:	Gasoline	
Fuel Sulfur Content (% by mass):	0.4	
Fuel Heating Value (Btu/lb):	20000	
Max Rated Horsepower (hp):	500	
Operating Horsepower (hp):	450	
Max Rated Fuel Usage (Btu/hp-hr):	7000	
Average Fuel Usage (Btu/hp-hr):	6300	
Total Fuel Used (gal):	7400	
Status:	Active	
Effect. Date:	8/1/99	

3

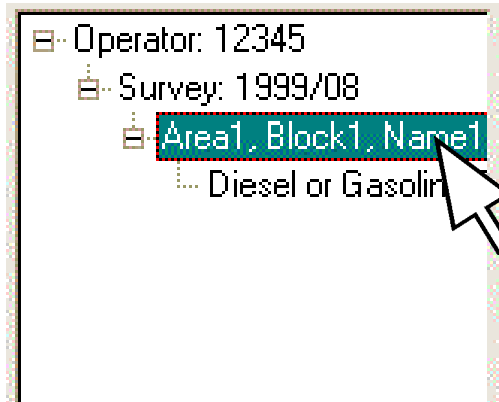
General Information	Exhaust System
	Outlet Height (ft): 10
	Outlet Inner Diameter (in): 4
	Exit Velocity (ft/s): 45
	Exit Temperature (°F): 500
	Outlet Orientation (degrees): 0

4

Save & Leave Edit Mode

Copy similar structures.

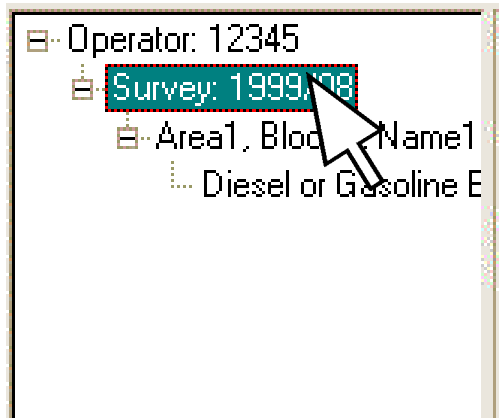
1



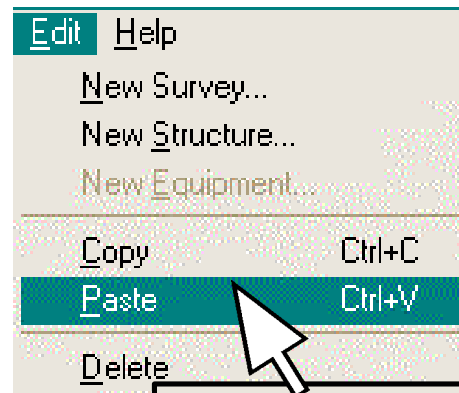
2



3



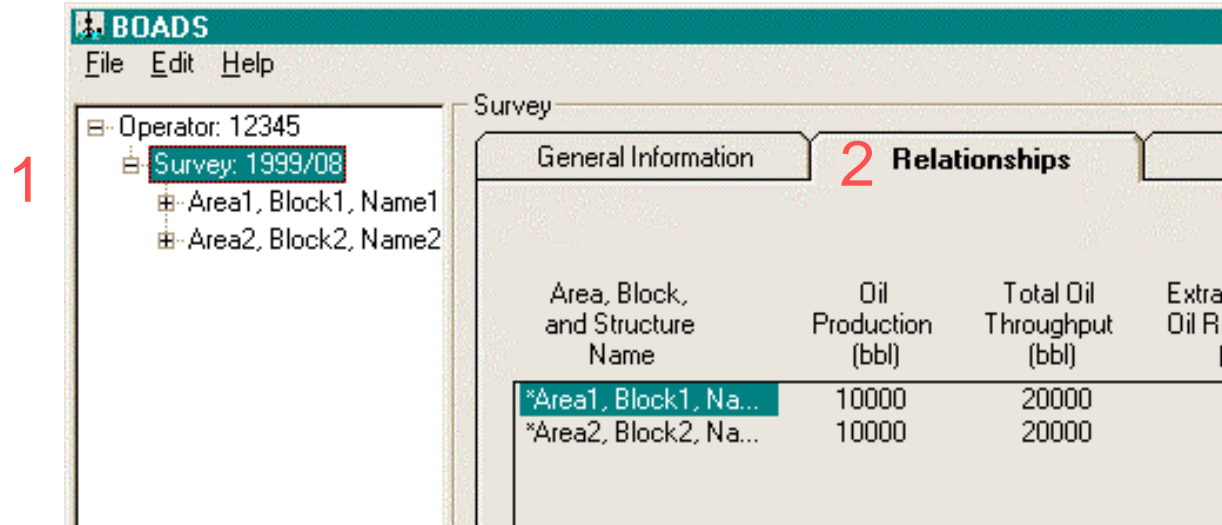
4



5

User ID:	12345	Area:	Area2
Survey Month/Year:	8/1999	Block:	Block2
MMS Complex ID (7 chars):	DEF-456	Name:	Name2
MMS Structure ID (2 chars):	M5		

Balance relationships. (1 of 2)



Balance relationships. (2 of 2)

4

Area, Block, and Structure Name	Oil Production (bbl)	Total Oil Throughput (bbl)	Extra Oil R
*Area1, Block1, Na...	10000	20000	
*Area2, Block2, Na...	10000	20000	

5

Edit Relationship

6

Edit Structure Relationships

Area, Block, Structure Name: Area2, Block2, Name2

Oil Production (bbl): 10000

Oil Initially Processed At

Facility Type: Company-Owned Offshore

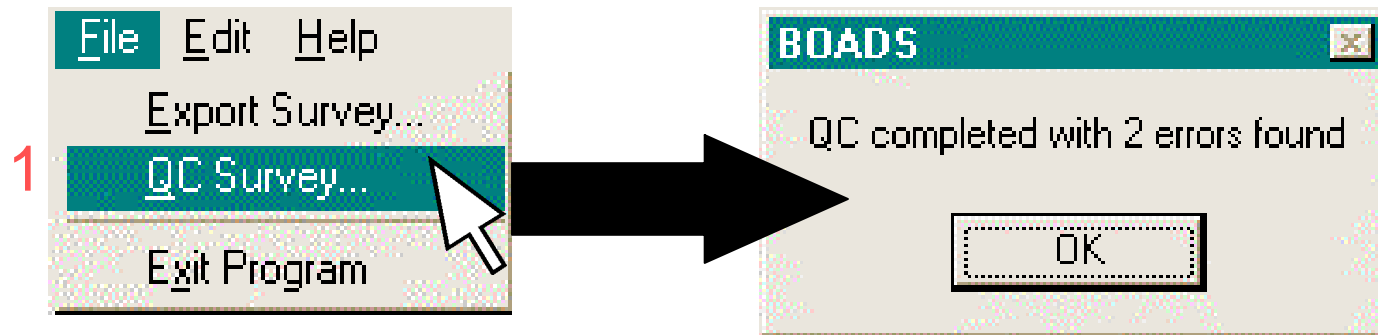
Area, Block, Structure Name: Area1, Block1, Name1

Extra Volume Oil
Received (bbl): 0

Total Oil Throughput (bbl): 10000

OK Cancel

QC and validate before submitting data.



Survey

General Information Relationships **2** QC Results

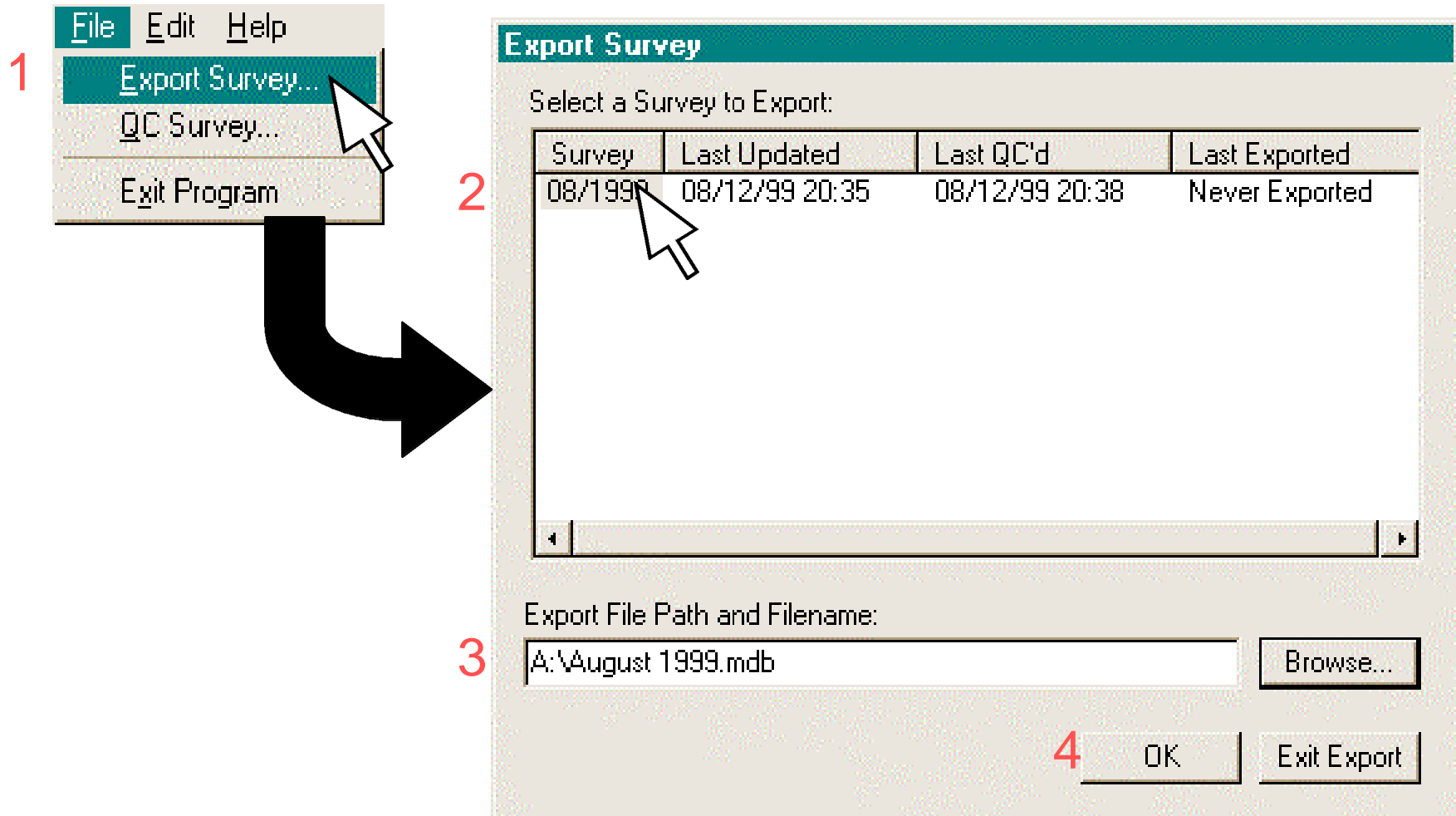
QC Results Date of Last QC: 08/12/99 20:38

3

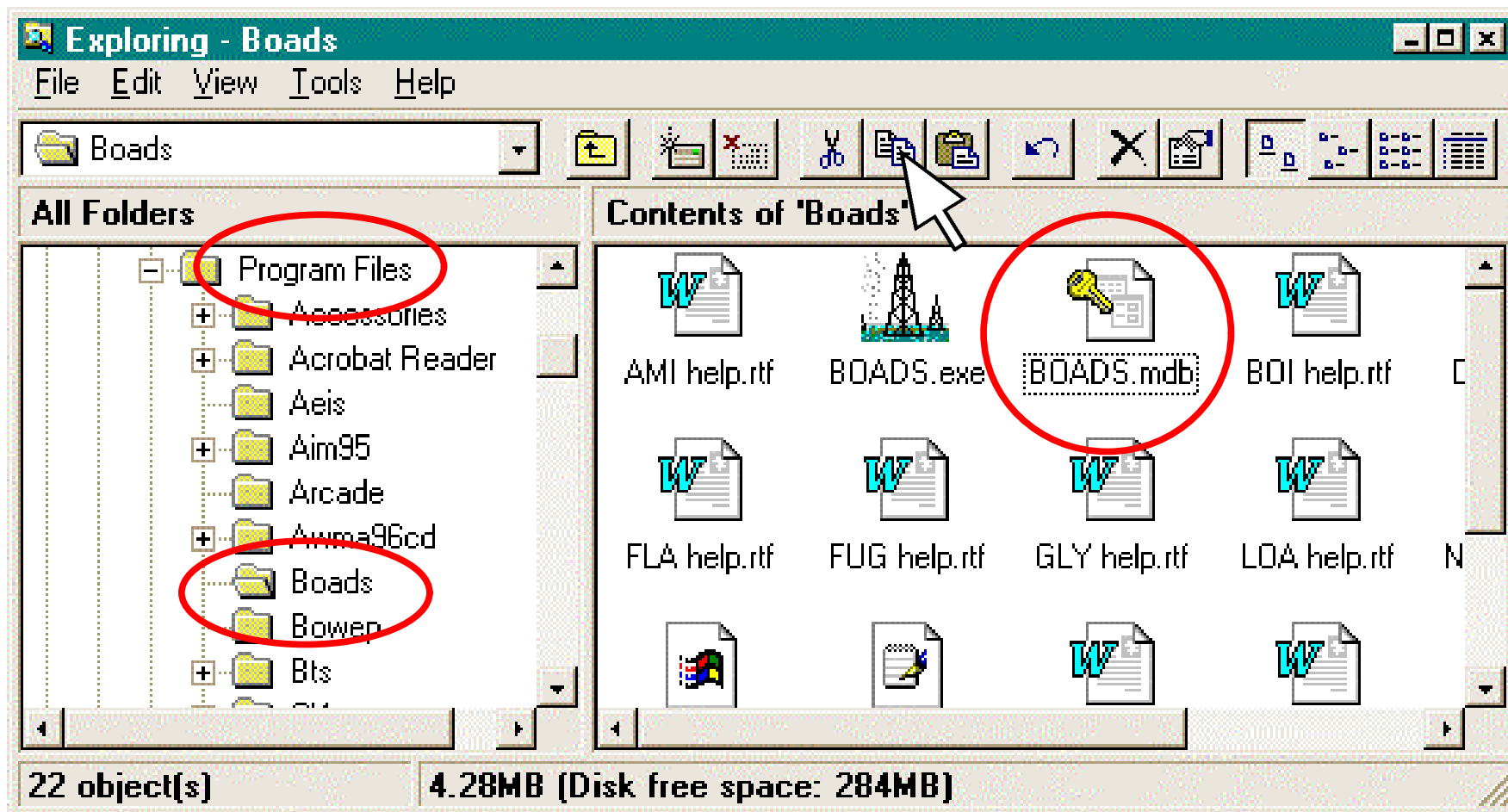
Error Source	Error Description	Comments
Structure: Area1, Block1, ...	1 errors found	n/a
Structure: Area2, Block2, ...	1 errors found	n/a

Review these structures' QC Results for specific errors.

Submit data.

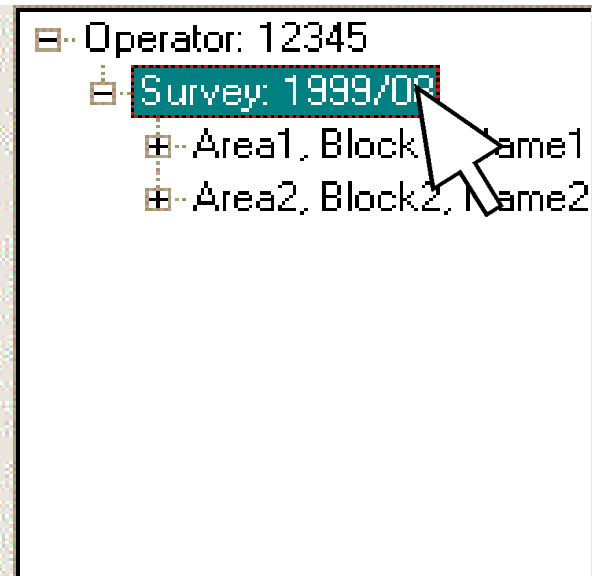


Back up the master database.




Copy last month's data.

1



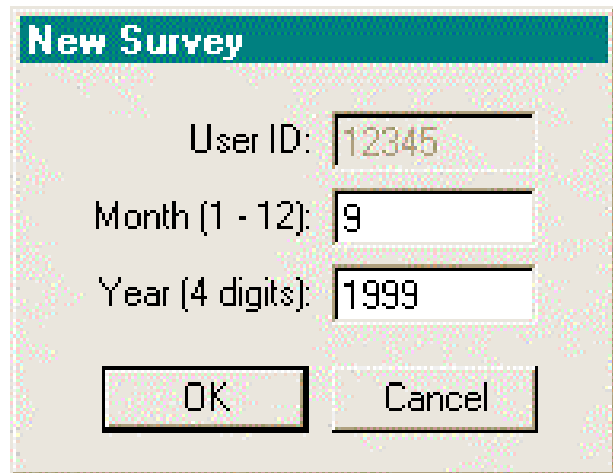
Operator: 12345
Survey: 1999/09
Area1, Block1, Name1
Area2, Block2, Name2

2



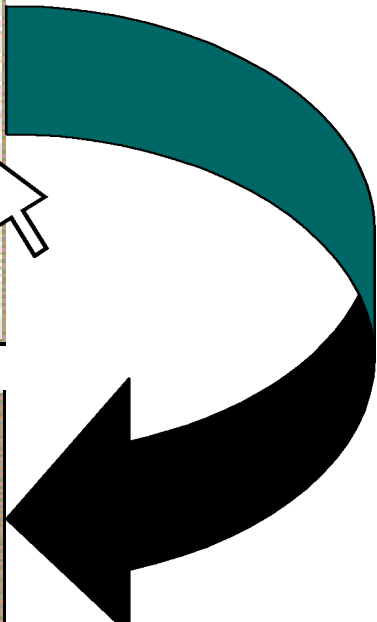
Edit Help
New Survey...
New Structure...
New Equipment...
Copy Ctrl+C
Paste Ctrl+V
Delete

3



New Survey

User ID: 12345
Month (1 - 12): 9
Year (4 digits): 1999
OK Cancel



Review variable data.

General Information		Exhaust System	
Engine Elevation (ft above msl):	135		
Hours Operated (hrs):	325		
Fuel Type:	Gasoline		
Fuel Sulfur Content (% by mass):	0.4		
Fuel Heating Value (Btu/lb):	20000		
Max Rated Horsepower (hp):	500		
Operating Horsepower (hp):	450		
Max Rated Fuel Usage (Btu/hp-hr):	7000		
Average Fuel Usage (Btu/hp-hr):	6300		
Total Fuel Used (gall):	7400		

Look for labels
with blue font.

QC and validate. (1 of 2)

1

File Edit Help
Export Survey...
QC Survey...
Exit Program

BOADS

QC completed with 2 errors found

OK

Survey

General Information Relationships 2 QC Results

QC Results Date of Last QC: 08/12/99 20:38

3

Error Source	Error Description	Comments
Structure: Area1, Block1, ...	1 errors found	n/a
Structure: Area2, Block2, ...	1 errors found	n/a

4

Operator: 12345
Survey: 1999/08
Survey: 1999/09
Area1, Block1, Name
Area2, Block2, Name2

QC and validate. (1 of 2)

5

General Information		QC Results
QC Results		D.
Error Source	Error Description	Operator Comment
Longitude	Value not in expected range (-98 to -81)	

6

Edit QC Comment

7

Edit QC Comments

Field Name: Longitude

Error Description: Value not in expected range (-98 to -81)

Comments:

Longitude -119.1234 is in California.

OK Cancel

8

Save & Leave Edit Mode

Ready to submit data again.

1

File Edit Help

Export Survey...

QC Survey...

Exit Program

2

Export Survey

Select a Survey to Export:

Survey	Last Updated	Last QC'd	Last Exported
08/1999	08/12/99 20:35	08/12/99 20:38	08/12/99 20:45
09/1999	08/12/99 20:35	08/12/99 20:38	08/12/99 20:45

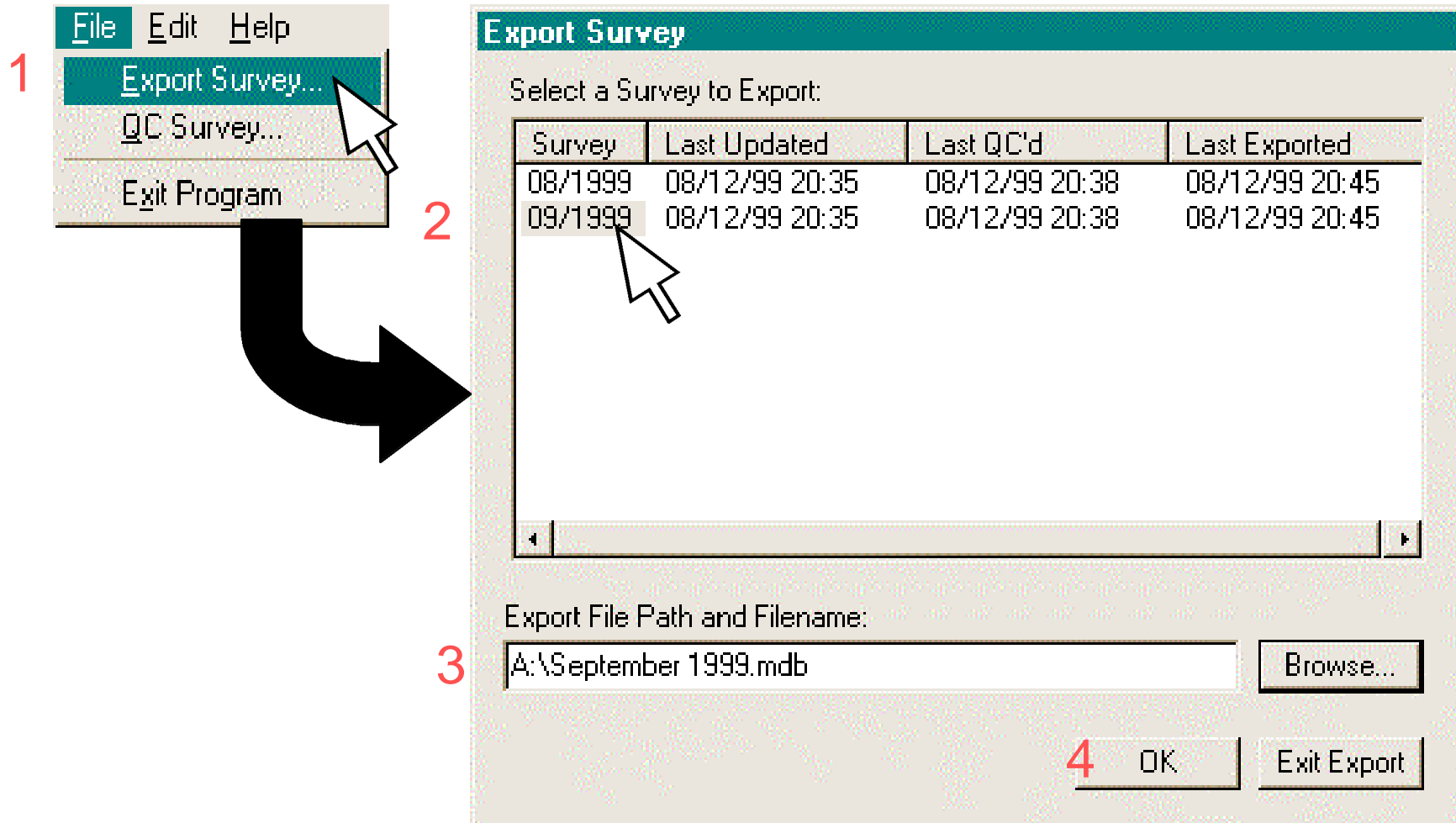
3

Export File Path and Filename:

A:\September 1999.mdb

Browse...

4 OK Exit Export



Technical Support

With questions/software issues:

Mr. Joe Perryman



E-Mail: joe.perryman@mms.gov



Mapping and Automation Unit (MS 5413)

1201 Elmwood Park Blvd.

New Orleans, LA 70123-2395

Phone: (504) 736-2791

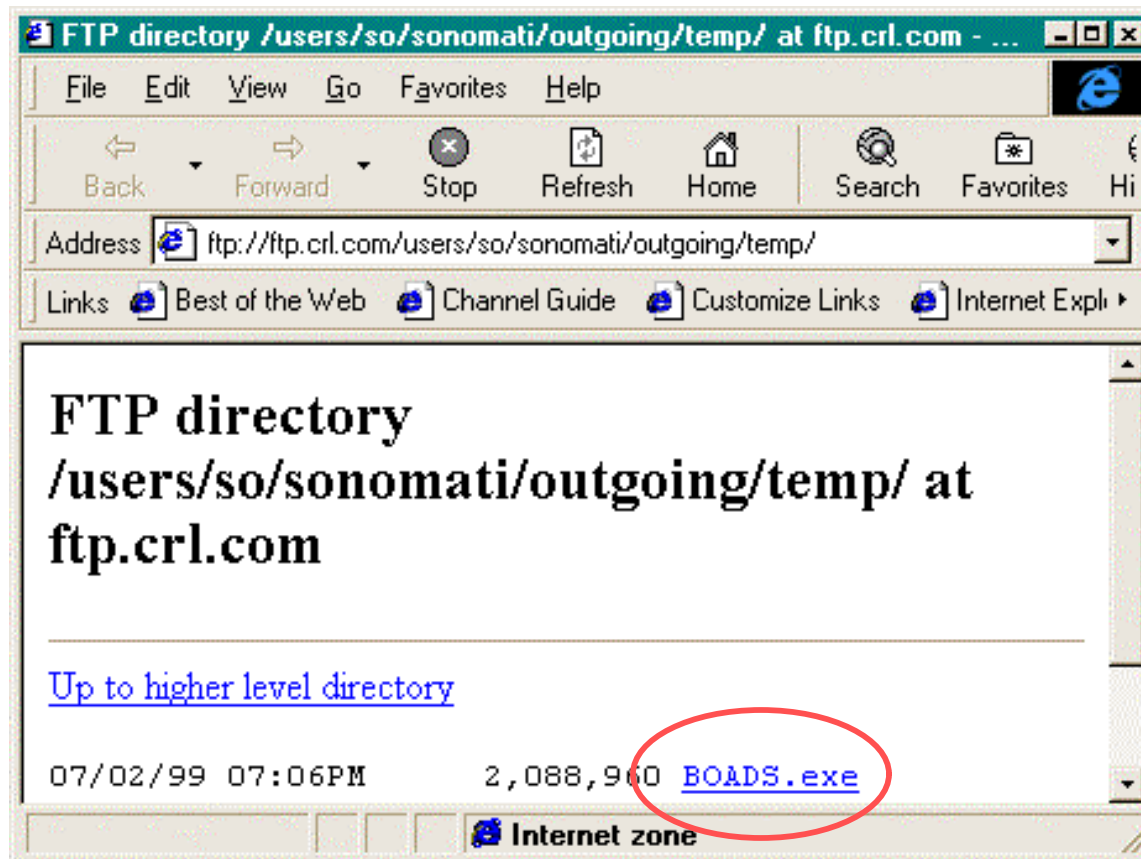
Full-Scale Trial Run

Important to comply; these data will be used.

- Response rate projections
- Preliminary analyses
- What we are looking for:
 - QC range checks too narrow?
 - Online help sufficient?
 - Cosmetic improvements needed?
- Things we cannot fix:
 - Add new data entries or equipment types.
 - Add new software features.

Following trial run, retrieve BOADS update.

ftp://ftp.crl.com/users/so/sonomati/outgoing/temp/



Copy BOADS.exe to the directory:
"C:\program files\BOADS\"

Useful MS Access 97 Features

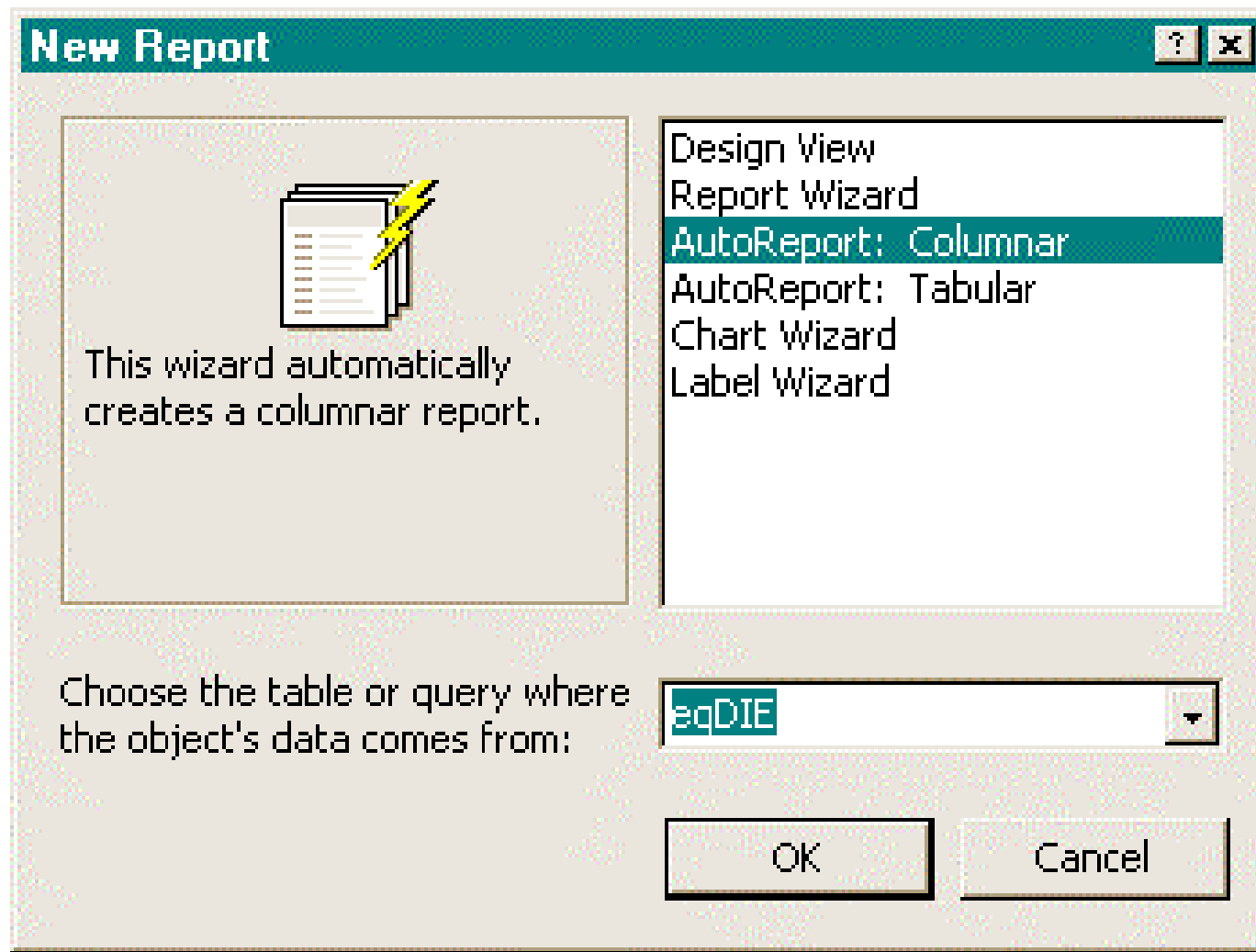
- Design customized data reports.
- Link to a master database over a LAN.

These activities can be risky and can potentially corrupt the master database.

--NO technical support; be cautious--

- NEVER modify the BOADS master database file. Copy the master file or create a linked database to work with.
- ALWAYS keep periodic, historical backups of the BOADS master database file.

Customized Data Reports - MS Access 97 Report Wizard



Customized Data Reports - Print Preview

Microsoft Access - [eqDIE]

File Edit View Tools Window Help

100% Close

Diesel/Gasoline Engine Month Year

CmplxID StructID EquipID

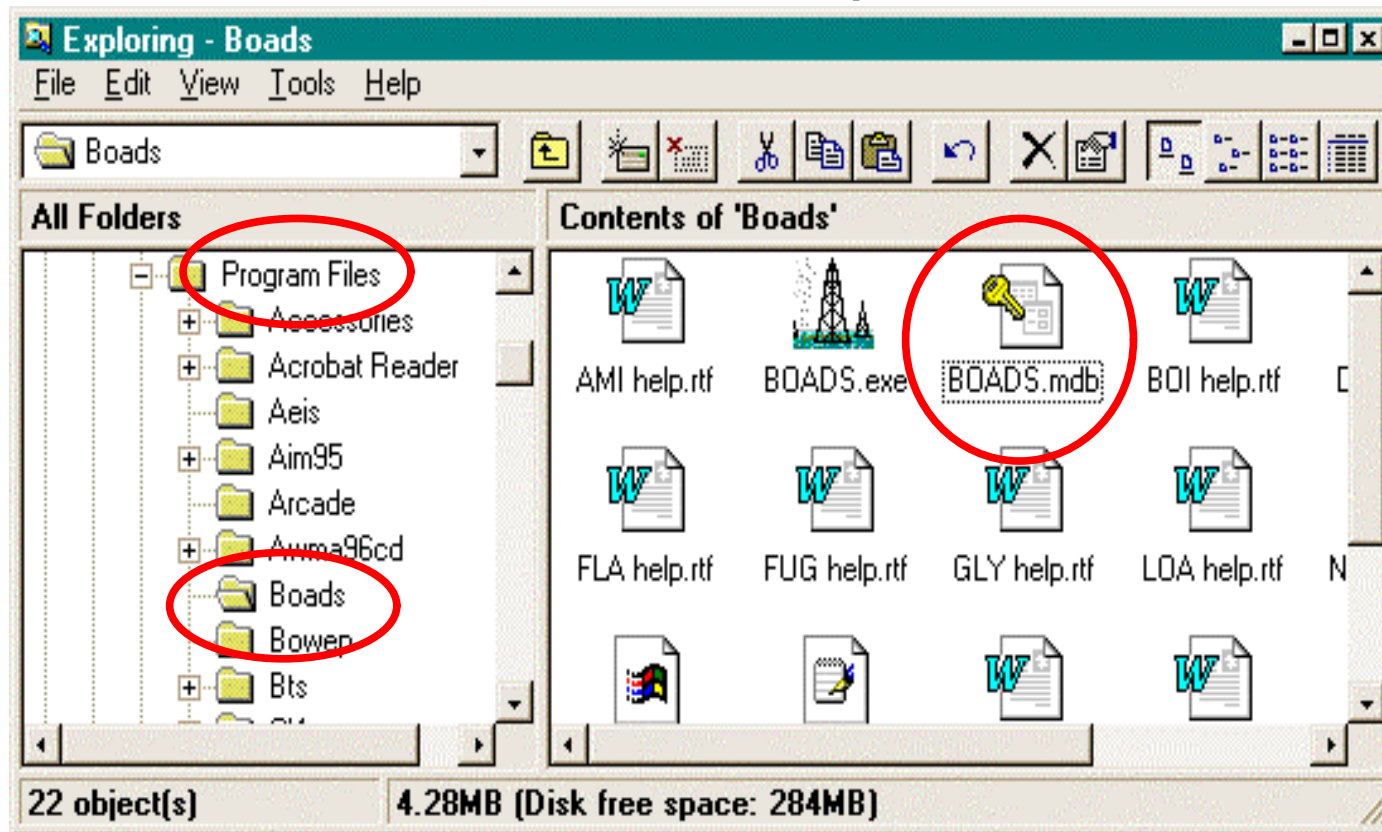
FuelType	<input type="text" value="Gasoline"/>	Other Control Device	<input checked="" type="checkbox"/>
MaxHP	<input type="text" value="500"/>	Other Control Desc	<input type="text" value="Catalytic converter"/>
OperatingHP	<input type="text" value="450"/>		
Hrs Operated	<input type="text" value="325"/>	Other Control Eff SOx	<input type="text" value="0"/>
Max Rated Fuel Usage	<input type="text" value="7000"/>	Other Control Eff NOx	<input type="text" value="0"/>
Fuel Usage Rate	<input type="text" value="6300"/>	Other Control Eff CO	<input type="text" value="99"/>
Total Fuel Used	<input type="text" value="7400"/>	Other Control Eff VOC	<input type="text" value="0"/>

Page: Ready

NUM

Share over a LAN

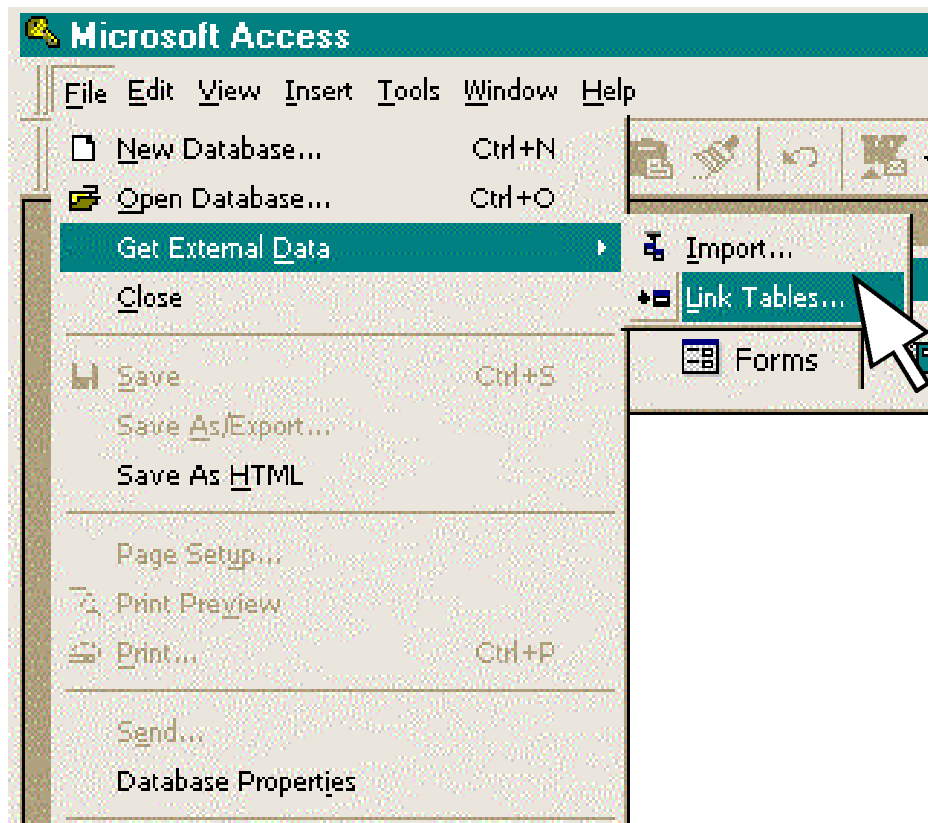
1. Copy the master database to a network drive.
If it contains data, back it up first!!



Share over a LAN

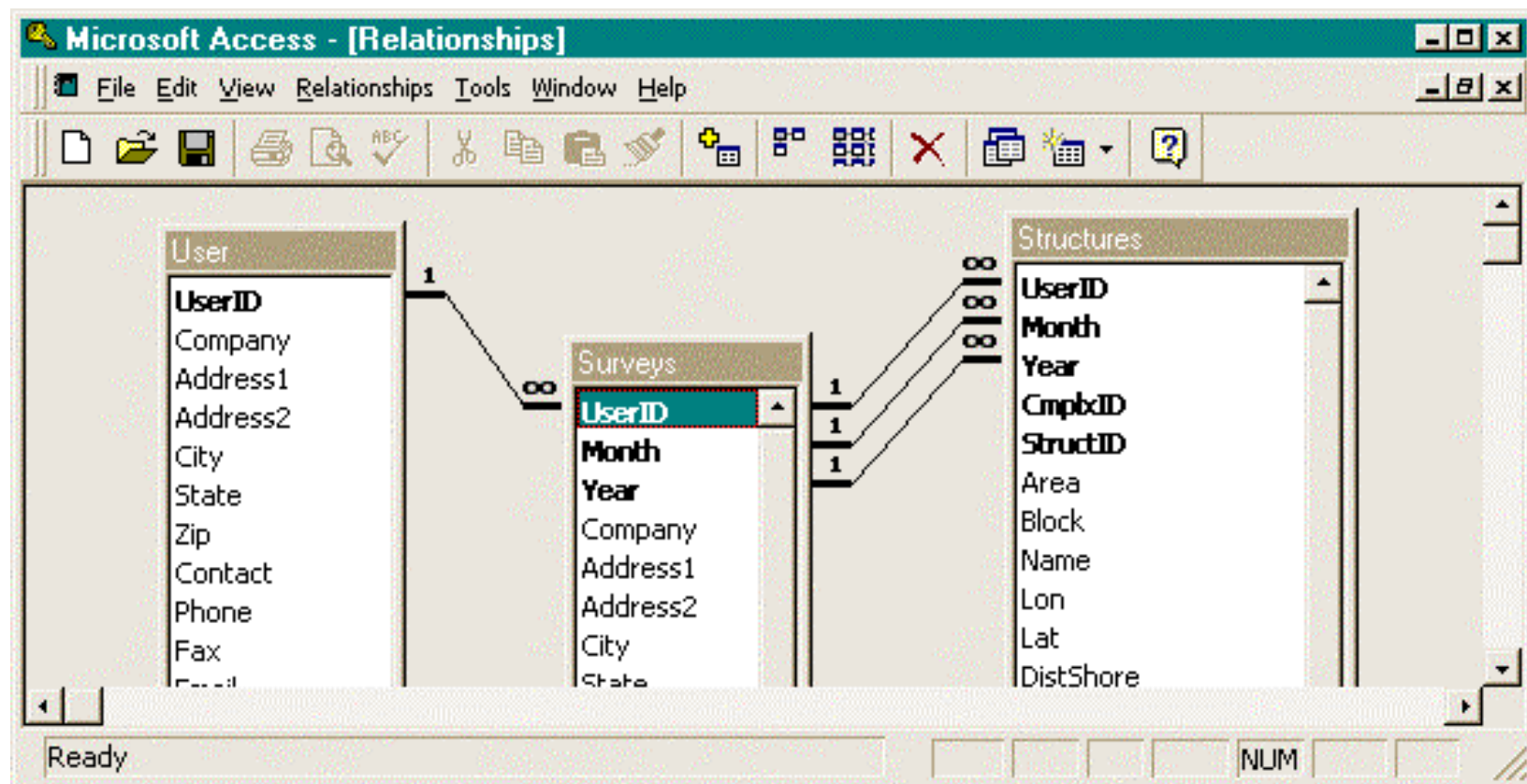
2. Locally, create a new, blank database file.
“c:\program files\BOADS.mdb”

3. Link it to the
master database
(now on the
network).



Share over a LAN

4. Make the relationships in the local database match those of the master file.



Hands-on with BOADS

(after lunch)

